

ABSTRACT OF THE DISCLOSURE

5 A constant current supply circuit generates a constant current according to a control voltage. A data read current passing through a tunneling magneto-resistance element constituting a memory cell during data write is set according to the constant current. Constant current supply circuit includes a voltage adjustment circuit generating a reference voltage adjustable according to an external input, a current source generating the constant current according to the reference voltage, and a voltage switch circuit transmitting the reference voltage to the current source as a control voltage during a normal operation.

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